4160-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2004-N-0451] (formerly 2004N-0226)

Food and Drug Administration Modernization Act of 1997: Modifications to the List of

Recognized Standards, Recognition List Number: 031

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice.

SUMMARY: The Food and Drug Administration (FDA) is announcing a publication containing modifications the Agency is making to the list of standards FDA recognizes for use in premarket reviews (FDA recognized consensus standards). This publication, entitled "Modifications to the List of Recognized Standards, Recognition List Number: 031" (Recognition List Number: 031), will assist manufacturers who elect to declare conformity with consensus standards to meet certain requirements for medical devices.

DATES: Submit written or electronic comments concerning this document at any time. See section VII for the effective date of the recognition of standards announced in this document. ADDRESSES: Submit written requests for single copies of "Modifications to the List of Recognized Standards, Recognition List Number: 031" to the Division of Small Manufacturers, International and Consumer Assistance, Center for Devices and Radiological Health, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 66, Silver Spring, MD 20993. Send two self-addressed adhesive labels to assist that office in processing your requests, or fax your request to 301-847-8149. Submit written comments concerning this document, or recommendations for additional standards for recognition, to the contact person (see FOR

FURTHER INFORMATION CONTACT). Submit electronic comments by email: standards@cdrh.fda.gov. This document may also be accessed on FDA's Internet site at http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/ucm123792.htm. See section VI for electronic access to the searchable database for the current list of FDA recognized consensus standards, including Recognition List Number: 031 modifications and other standards related information.

FOR FURTHER INFORMATION CONTACT: Scott A. Colburn, Center for Devices and Radiological Health, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 66, rm. 3632, Silver Spring, MD 20993, 301-796-6287.

SUPPLEMENTARY INFORMATION:

I. Background

Section 204 of the Food and Drug Administration Modernization Act of 1997 (FDAMA) (Public Law 105-115) amended section 514 of the Federal Food, Drug, and Cosmetic Act (the FD&C Act) (21 U.S.C. 360d). Amended section 514 allows FDA to recognize consensus standards developed by international and national organizations for use in satisfying portions of device premarket review submissions or other requirements.

In a notice published in the <u>Federal Register</u> of February 25, 1998 (63 FR 9561), FDA announced the availability of a guidance entitled "Recognition and Use of Consensus Standards." The notice described how FDA would implement its standard recognition program and provided the initial list of recognized standards.

Modifications to the initial list of recognized standards, as published in the <u>Federal</u>

<u>Register</u>, can be accessed at

http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/ucm123792.htm.

These notices describe the addition, withdrawal, and revision of certain standards recognized by FDA. The Agency maintains "hypertext markup language (HTML)" and "portable document format (PDF)" versions of the list of "FDA Recognized Consensus Standards." Both versions are publicly accessible at the Agency's Internet site. See section VI for electronic access information. Interested persons should review the supplementary information sheet for the standard to understand fully the extent to which FDA recognizes the standard.

II. Modifications to the List of Recognized Standards, Recognition List Number: 031

FDA is announcing the addition, withdrawal, correction, and revision of certain consensus standards the Agency will recognize for use in premarket submissions and other requirements for devices. FDA will incorporate these modifications in the list of FDA Recognized Consensus Standards in the Agency's searchable database. FDA will use the term "Recognition List Number: 031" to identify these current modifications.

In table 1, FDA describes the following modifications: (1) The withdrawal of standards and their replacement by others, if applicable; (2) the correction of errors made by FDA in listing previously recognized standards; and (3) the changes to the supplementary information sheets of recognized standards that describe revisions to the applicability of the standards.

In section III, FDA lists modifications the Agency is making that involve the initial addition of standards not previously recognized by FDA.

Old	Replacement	Title of Standard ¹	Change		
Recognition	Recognition				
No.	No.				
	A. Anesthesia				
1-74	1-91	ISO 5360 Third edition 2012-01-15 Anaesthetic	Withdrawn and replaced		
		vaporizersAgent-specific filling systems	with newer version.		
1-35	1-93	ISO 5361 Second edition 2012-10-01 Anaesthetic and	Withdrawn and replaced		
		respiratory equipmentTracheal tubes and connectors	with newer version.		

Old	Replacement	Title of Standard	Change
Recognition	Recognition	Title of Standard	Change
No.	No.		
1-82	INU.	IEC 60601-2-13 Edition 3.1 2009-08 Medical	Transition period
1-62		electrical equipmentPart 2-13: Particular	extended.
		requirements for the safety and essential performance	extended.
		of anaesthetic systems	
1-88		ISO 80601-2-12 Medical electrical equipmentPart	Transition period
1-00			extended.
		2-12: Particular requirements for the safety of lung ventilatorsCritical care ventilators	extended.
2.110	I	B. Biocompatibility	Reaffirmation.
2-119		ASTM F813-07 (Reapproved 2012) Standard Practice	Reaffirmation.
		for Direct Contact Cell Culture Evaluation of	
2 122		Materials for Medical Devices	D 07
2-122		ASTM F719-81 (Reapproved 2012) Standard Practice	Reaffirmation.
		for Testing Biomaterials in Rabbits for Primary Skin	
2.122		Irritation	
2-123		ASTM F720-81 (Reapproved 2012) Standard Practice	Reaffirmation.
		for Testing Guinea Pigs for Contact Allergens: Guinea	
		Pig Maximization Test	
2-124		ASTM F750-87 (Reapproved 2012) Standard Practice	Reaffirmation.
		for Evaluating Materials Extracts by Systemic	
		Injection in the Mouse	
2-125	2-197	ASTM F749-13 Standard Practice for Evaluating	Withdrawn and replaced
		Material Extracts by Intracutaneous Injection in the	with newer version.
		Rabbit	
2-135	2-198	ANSI/AAMI/ISO 10993-12:2012 Biological	Withdrawn and replaced
		evaluation of medical devicesPart 12:Sample	with newer version.
		preparation and reference materials	
2-146		ASTM F2148-07 (Reapproved 2012) Standard	Reaffirmation.
		Practice for Evaluation of Delayed Contact	
		Hypersensitivity Using the Murine Local Lymph Node	
		Assay (LLNA)	
2-152		ISO 10993-10:2002/Amd.1:2006(E) Biological	Withdrawn, see 2-174.
		evaluation of medical devicesPart 10: Tests for	
		irritation and delayed-type hypersensitivity	
		AMENDMENT 1	
2-192	2-199	USP 36-NF31:2013 <87> Biological Reactivity Test,	Withdrawn and replaced
		In VitroDirect Contact Test	with newer version.
2-193	2-200	USP 36-NF31:2013Biological Tests <87> Biological	Withdrawn and replaced
		Reactivity Tests, In VitroElution Test	with newer version.
2-194	2-201	USP 36-NF31:2013 Biological Tests <88> Biological	Withdrawn and replaced
		Reactivity Tests, In Vivo Procedure Preparation of	with newer version.
		Sample	
2-195	2-202	USP 36-NF31:2013 Biological Tests <88> Biological	Withdrawn and replaced
		Reactivity Tests, In Vitro Classification of Plastics	with newer version.
		Intracutaneous Test	
2-196	2-203	USP 36-NF31:2013 Biological Tests <88> Biological	Withdrawn and replaced
		Reactivity Tests, In Vivo Classification of Plastics-	with newer version.
		Systemic Injection Test	
	<u>I</u>	~ J ~ · · · · · · · · · · · · · · · · ·	I

Old	Replacement	Title of Standard	Change
Recognition	Recognition		
No.	No.		
	1	C. Cardiovascular	
3-38	3-115	IEC 60601-2-34 Edition 3.0 2011-05 Medical	Newer version with
		Electrical EquipmentPart 2-34: Particular	transition period.
		Requirements for the Basic Safety and Essential	1
		Performance of Invasive Blood Pressure Monitoring	
		Equipment	
3-55		ASTM F1830-97 (Reapproved 2013) Standard	Reaffirmation.
		Practice for Selection of Blood for In Vitro Evaluation	
		of Blood Pumps	
3-56		ASTM F1841-97 (Reapproved 2013) Standard	Reaffirmation.
3 30		Practice for Assessment of Hemolysis in Continuous	iteariiiiatioii.
		Flow Blood Pumps	
3-66		ASTM F2081-06 (Reapproved 2013) Standard Guide	Reaffirmation.
3 00		for Characterization and Presentation of the	iceannation.
		Dimensional Attributes of Vascular Stents	
3-79		ASTM F2079-09 (Reapproved 2013) Standard Test	Reaffirmation.
3-17		Method for Measuring Intrinsic Elastic Recoil of	Realitimation.
		Balloon-Expandable Stents	
3-86		ASTM F2394-07 (Reapproved 2013) Standard Guide	Reaffirmation.
3-00		for Measuring Securement of Balloon Expandable	Realiffilation.
		Vascular Stent Mounted on Delivery System	
3-87		ASTM F2477-07 (Reapproved 2013) Standard Test	Reaffirmation.
3-07		Methods for in vitro Pulsatile Durability	Realifination.
3-81	3-117	ANSI/AAMI/ISO 81060-2 Second edition 2013-05-	With duaren and mania and
3-81	3-11/		Withdrawn and replaced with newer version.
		01, Non-Invasive SphygmomanometersPart 2:	with newer version.
3-94	3-116	Clinical Validation of Automated Measurement Type ISO 25539-2 Second edition 2012-12-01	With duarry and manle and
3-94	3-110		Withdrawn and replaced
		Cardiovascular ImplantsEndovascular DevicesPart	with newer version.
		2: Vascular Stents Part 2: Vascular Stent	
4.75	1	D. Dental/ENT ISO 7785-1 Second edition 1997-08-01 Dental	Wid-In 4 206
4-75			Withdrawn, see 4-206.
		HandpiecesPart 1: High-Speed Air Turbine	
1.76		Handpieces	W/d 1 4 200
4-76		ISO 7785-2 Second edition 1995-08-0 Dental	Withdrawn, see 4-206.
		HandpiecesPart 2: Straight and Geared Angle	
1.02		Handpieces	TT::1 1 4 20 6
4-83		ISO 11498 First edition 1997-02-15 Dental	Withdrawn, see 4-206.
		Handpieces: Dental Low-Voltage Electrical Motors	
4-84		ISO 13294 First edition 1997-05-01 Dental	Withdrawn, see 4-206.
		HandpiecesDental Air-Motors	- aa :
4-90		ANSI S3.39:1987 (Reaffirmed by ANSI June 15,	Reaffirmation.
		2012) American National Standard Specifications for	
		Instruments to Measure Aural Acoustic Impedance	
		and Admittance (Aural Acoustic Immittance)	
4-119		ANSI/ADA Specification No. 82:1998/ISO	Reaffirmation.
		13716:1999 Reaffirmed by ANSI: January 2009	
		Dental Reversible/Irreversible Hydrocolloid	
		Impression Material Systems	
4-123	4-203	ANSI/ASA S3.6-2010 (Revision of ANSI S3.6-2004)	Withdrawn and replaced
T 123			

Old	Replacement	Title of Standard	Change
Recognition	Recognition	Title of Standard	Change
-	No.		
No. 4-167	INO.	ANSI/ASA S3.21-2004 (R2009) Methods for Manual	Reaffirmation.
4-10/		Pure-Tone Threshold Audiometry	Realiffilation.
4-172	4-204	ANSI/ASA S3.42-2012/Part 2 / IEC 60118-15:2012	With duaren and nonlaged
4-1/2	4-204		Withdrawn and replaced
		American National Standard Testing Hearing Aids-	with newer version.
		Part 2: Methods for characterizing signal processing in	
		hearing aids with a speech-like signal (a nationally	
		adopted international standard)	
4-187		IEC 60601-2-18 Edition 3.0 2009-08 Medical	Transition period
		electrical equipmentPart 2-18: Particular	extended.
		requirements for the basic safety and essential	
		performance of endoscopic equipment	
	•	E. General	
5-53		IEC 60601-1-2 Edition 3.0 2007-03 Medical electrical	Transition period
		equipmentPart 1-2: General requirements for basic	extended.
		safety and essential performanceCollateral standard:	
		Electromagnetic compatibilityRequirements and	
		tests	
5-54		ANSI/AAMI/IEC 60601-1-2:2007/(R)2012 Medical	Reaffirmation and
		electrical equipmentPart 1-2: General requirements	transition period
		for basic safety and essential performanceCollateral	extended.
		standard: Electromagnetic compatibility	
		Requirements and tests	
5-55	5-76	IEC 60601-1-8 Edition 2.1 2012-11 Medical electrical	Withdrawn and replaced
		equipmentPart 1-8: General requirements for basic	with newer version.
		safety and essential performanceCollateral standard:	Transition period
		General requirements, tests, and guidance for alarm	extended.
		systems in medical electrical equipment and medical	entenueu.
		electrical systems	
5-71	5-77	ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012,	Withdrawn and replaced
5 71		C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated	with new version.
		Text), Medical electrical equipmentPart 1: General	with new version.
		requirements for basic safety and essential	
		performance (IEC 60601-1:2005, MOD)	
5-74	5-77	ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012,	Withdrawn and replaced
J-1 -	3-11	C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated	with new version.
		Text), Medical electrical equipmentPart 1: General	with hew version.
		requirements for basic safety and essential	
		performance (IEC 60601-1:2005, MOD)	
(0	(200	F. General Hospital/General Plastic Surgery	
6-9	6-300	IEC 60601-2-21 Edition 2.0 2009-02 Medical	Newer version with
		electrical equipmentPart 2-21: Particular	transition period.
		requirements for the basic safety and essential	
(20	6.200	performance of infant radiant warmers	NT
6-29	6-298	IEC 60601-2-19 Edition 2.0 2009-02 Medical	Newer version with
		electrical equipmentPart 2-19: Particulars for the	transition period.
		basic safety and essential performance of infant	
		incubators	
6-32	6-299	IEC 60601-2-20 Edition 2.0 2009-02 Medical	Newer version with
		electrical equipmentPart 2-20: Particular	transition period.
		requirements for the basic safety and essential	
	1	performance of infant radiant warmers	

Old	Replacement	Title of Standard ¹	Change
Recognition	Recognition	This of Standard	Change
No.	No.		
6-116	6-294	ISO 11608-3 Second edition 2012-10-01 Needle-	Withdrawn and replaced
0-110	0-294	based injection systems for medical use-	with newer version.
		Requirements and test methodsPart 3: Finished	with newer version.
		containers	
6-119	6-295	ANSI/AAMI BF7:2012 Blood transfusion microfilters	Withdrawn and replaced
0 11)	0 2)3	ATTOTAL MILE DI 7.2012 Blood transfusion interofficers	with newer version.
6-147		ASTM D697805 (Reapproved 2013) Standard	Reaffirmation.
0-14/		Practice for Assessment of Resistance of Medical	Realiffication.
		Gloves to Permeation by Chemotherapy Drugs	
6-174		ISO 11608-4 First edition 2006-03-15 Pen-injectors	Contact person.
0-1/4		for medical usePart 4: Requirements and test	Contact person.
		methods for electronic and electromechanical pen-	
		injectors	
6-179		ISO 21649 First edition 2006-06-01, Needle-free	Contact person.
0 177		injectors for medical useRequirements and test	Contact person.
		methods	
6-112	6-296	ANSI/AAMI PB70:2012 Liquid barrier performance	Withdrawn and replaced
0 112	0 2 3 0	and classification of protective apparel and drapes	with newer version.
		intended for use in health care facilities	with newer version.
6-214		ASTM D635507 (Reapproved 2012) Standard Test	Reaffirmation.
0 21 .		Method for Human Repeat Insult Patch Testing of	
		Medical Gloves	
6-216		ISO 8536-7 Third edition 2009-01-15 Infusion	Contact person.
0 210		equipment for medical usePart 7: Caps made of	Contact person.
		aluminium-plastics combinations for infusion bottles	
6-227		ANSI/AAMI/IEC 60601-2-21:2009, Medical	Transition period
0 227		electrical equipmentPart 2-21: Particular	extended.
		requirements for the basic safety and essential	extended.
		performance of infant radiant warmers	
6-228		IEC 60601-2-2 Edition 5.0 2009-02, Medical	Transition period
0 220		Electrical EquipmentPart 2-2: Particular	extended.
		requirements for the basic safety and essential	CATORIGO.
		performance of high frequency surgical equipment and	
		high frequency surgical accessories	
6-229		ANSI/AAMI/IEC 60601-2-2:2009, Medical electrical	Transition period
		equipmentPart 2-2: Particular requirements for the	extended.
		basic safety and essential performance of high	
		frequency surgery equipment and high frequency	
		surgical accessories	
6-230		ANSI/AAMI/IEC 60601-2-19:2009, Medical	Transition period
		Electrical EquipmentPart 2-19: Particular	extended.
		requirements for the basic safety and essential	
		performance of infant incubators	
6-231		ANSI/AAMI/IEC 60601-2-20:2009, Medical	Transition period
		Electrical EquipmentPart 2-20: Particular	extended.
		requirements for the basic safety and essential	
		performance of infant transport incubators	
6-233		IEC 60601-2-52 Edition 1.0 2009-12 Medical	Transition period
= =		electrical equipment Part 2-52: Particular	extended.
		1	
		requirements for basic safety and essential	

Old		Title of Standard	Change
	Replacement	Title of Standard	Change
Recognition	Recognition		
No.	No.		~
6-234		IEC 60601-2-50 Edition 2.0 2009-03 Medical	Contact person.
		electrical equipmentPart 2-50: Particular	
		requirements for the basic safety and essential	
		performance of infant phototherapy equipment	
6-235		ANSI/AAMI/IEC 60601-2-50:2009 Medical	Contact person.
		Electrical EquipmentPart 2-50: Particular	•
		requirements for the basic safety and essential	
		performance of infant phototherapy equipment	
6-239		ISO 8536-6 Second edition 2009-11-15 Infusion	Contact person.
0 23)		equipment for medical usePart 6: Freeze drying	Contact person.
		closures for infusion bottles	
6-240		ISO 8536-3 Third edition 2009-06-01 Infusion	Contact person.
0-240			Contact person.
		equipment for medical usePart 3: Aluminum caps for	
(241	6.207	infusion bottles	337'.1 1 1 1 1
6-241	6-297	ISO 1135-4 Fifth edition 2012-03-01 Transfusion	Withdrawn and replaced
		equipment for medical usePart 4: Transfusion sets	with newer version.
		for single use	
6-274		ISO 11608-1 Second edition 2012-04-01 Needle-	Contact person.
		based injection systems for medical use	
		Requirements and test methodsPart 1: Needle-based	
		injection systems	
6-275		ISO 11608-2 Second edition 2012-04-01 Needle-	Contact person.
		based injection systems for medical use	-
		Requirements and test methodsPart 2: Needles	
6-276		ISO 8536-1 Fourth edition 2011-09-01 Infusion	Contact person.
		equipment for medical usePart 1: Infusion glass	F
		bottles	
		G. In Vitro Diagnostics	
7-3		CLSI / NCCLS GP10-A 1995, Assessment of the	Withdrawn, see 7-234.
7 3		Clinical Accuracy of Laboratory Tests Using Receiver	Withdrawn, 500 / 254.
		Operating Characteristic (ROC) Plots; Approved	
		Guideline Guideline	
7-4			Withdrawn.
/ - 4		CLSI / NCCLS GP14-A 1996, Labeling of Home-Use	w iuiuiawii.
7.27		In Vitro Testing Products; Approved Guideline	XX7'.1 1
7-37		NCCLS I/LA6-A, Detection and Quantitation of	Withdrawn.
		Rubella IgG Antibody: Evaluation and Performance	
		Criteria for Multiple Component Test Products,	
		Specimen Handling, and Use of Test Products in the	
		Clinical Laboratory; Approved Guideline	
7-41		NCCLS I/LA19-A, Primary Reference Preparations	Withdrawn.
		Used to Standardize Calibration of Immunochemical	
		Assays for Serum Prostate Specific Antigen (PSA);	
		Approved Guideline (1997)	
7-154		CLSI MM02-A2, Immunoglobulin and T-Cell	Withdrawn.
		Receptor Gene Rearrangement Assays	
7-171		CLSI M38-A2, Reference Method for Broth Dilution	Extent of recognition,
		Antifungal Susceptibility Testing of Filamentous	process affected, and
		Fungi; Approved StandardSecond Edition	contact person.
7-178		CLSI M22-A3, Quality Control for Commercially	Extent of recognition,
/-1/0			
		Prepared Microbiological Culture Media; Approved	process affected, and
		StandardThird Edition	contact person.

Old	Replacement	Title of Standard ¹	Change
		Title of Standard	Change
Recognition	Recognition		
No.	No.		
7-179	7-240	CLSI M27-S4, Reference Method for Broth Dilution	Withdrawn and replaced
		Antifungal Susceptibility Testing of Yeasts; Fourth	with newer version.
		Informational Supplement	
7-200		CLSI M48-A, Laboratory Detection and Identification	Extent of recognition,
		of Mycobacteria; Approved Guideline	type of standard, and
			process affected.
7-206		CLSI I/LA 20-A2 Analytical Performance	Relevant guidance.
, ====		Characteristics and Clinical Utility of Immunological	<i>g</i>
		Assays for Human Immunoglobulin E (IgE)	
		Antibodies and Defined Allergen Specificities;	
		Approved GuidelineSecond Edition	
7-215		CLSI M44-A2, Method for Antifungal Disk Diffusion	Extant of recognition
7-213			Extent of recognition,
		Susceptibility Testing of Yeast; Approved Guideline-	process affected, and
		Second Edition.	contact person.
7-217		CLSI M44-S3, Zone Diameter Interpretive Standards,	Extent of recognition,
		Corresponding Minimal Inhibitory Concentration	process affected, and
		(MIC) Interpretive Breakpoints, and Quality Control	contact person.
		Limits for Antifungal Disk Diffusion Susceptibility	
		Testing of Yeasts; Third Informational Supplement	
7-218		CLSI M45-A2, Methods for Antimicrobial Dilution	Extent of recognition and
		and Disk Susceptibility Testing of Infrequently	process affected.
		Isolated or Fastidious Bacteria; Approved Guideline	
		Second Edition	
7-222		CLSI M24-A2, Susceptibility Testing of	Extent of recognition,
, 222		Mycobacteria, Nocardiae and other Aerobic	process affected, contact
		Actinomycetes; Approved StandardsSecond Edition	person, and title and type
		7 remoniyeetes, ripproved standards second Edition	of standard.
7-228		CLSI M11-A8, Methods for Antimicrobial	Extent of recognition,
1-220			
		Susceptibility Testing of Anaerobic Bacteria;	process affected, and
7.220		Approved StandardEighth Edition	contact person.
7-229		CLSI M02-A11, Performance Standards for	Extent of recognition,
		Antimicrobial Disk Susceptibility Tests; Approved	process affected, and
		StandardEleventh Edition	contact person.
7-230		CLSI M07-A9, Methods for Dilution Antimicrobial	Extent of recognition,
		Susceptibility Tests for Bacteria That Grow	process affected, and
		Aerobically; Approved StandardNinth Edition	contact person.
7-231	7-241	CLSI M100-S23, Performance Standards for	Withdrawn and replaced
		Antimicrobial Susceptibility Testing; Twenty-Third	with newer version.
		Informational Supplement	
7-234		CLSI EP24-A2, Assessment of the Diagnostic	Extent of recognition.
		Accuracy of Laboratory Tests Using Receiver	
		Operating Characteristic Curves; Approved Guideline-	
		-Second Edition	
		H. Materials	<u> </u>
8-122	8-335	ASTM F2063-12 Standard Specification for Wrought	Withdrawn and ranload
0-122	0-333		Withdrawn and replaced
		Nickel-Titanium Shape Memory Alloys for Medical	with newer version.
0.11-	0.00	Devices and Surgical Implants	
8-147	8-336	ASTM F562-13 Standard Specification for Wrought	Withdrawn and replaced
	0 330		
	0 330	35Cobalt-35Nickel-20Chromium-10Molybdenum	with newer version.
	0 330		with newer version.

Old	Replacement	Title of Standard	Change
Recognition	Recognition	Title of Standard	
No.	No.		
8-153	110.	ASTM F2119-07 (Reapproved 2013) Standard Test	Reaffirmation.
0 133		Method for Evaluation of MR Image Artifacts from	realimenton.
		Passive Implants	
8-154	8-337	ASTM F621-12 Standard Specification for Stainless	Withdrawn and replaced
0 13 1	0 337	Steel Forgings for Surgical Implants	with newer version.
8-156	8-338	ASTM F139-12 Standard Specification for Wrought	Withdrawn and replaced
0 150	0 330	18Chromium-14Nickel-2.5Molybdenum Stainless	with newer version.
		Steel Sheet and Strip for Surgical Implants (UNS	with newer version.
		S31673)	
8-158		ASTM F1713-08 (Reapproved 2013) Standard	Reaffirmation.
0 120		Specification for Wrought Titanium-13Niobium-13	Ttourninucion.
		Zirconium Alloy for Surgical Implant Applications	
		(UNS R58130)	
8-166	8-339	ASTM F1091-12 Standard Specification for Wrought	Withdrawn and replaced
0 100	0 337	Cobalt-20Chromium-15Tungsten-10Nickel Alloy	with newer version.
		Surgical Fixation Wire (UNS R30605)	With he wer version.
8-203	8-340	ASTM F2026-12 Standard Specification for	Withdrawn and replaced
0 203	0 3 10	Polyetheretherketone (PEEK) Polymers for Surgical	with newer version.
		Implant Applications	, , , , , , , , , , , , , , , , , , ,
8-219	8-341	ASTM F136-12a Standard Specification for Wrought	Withdrawn and replaced
0 21)		Titanium-6Aluminum-4Vanadium ELI (Extra Low	with newer version.
		Interstitial) Alloy for Surgical Implant Applications	William Well Verbrein
		(UNS R56401)	
8-222	8-342	ASTM F1537-11 Standard Specification for Wrought	Withdrawn and replaced
		Cobalt-28Chromium-6Molybdenum Alloys for	with newer version.
		Surgical Implants (UNS R31537, UNS R31538, and	
		UNS R31539)	
8-332	8-343	ASTM F899-12b Standard Specification for Wrought	Withdrawn and replaced
		Stainless Steels for Surgical Instruments	with newer version.
		I. OB-GYN/Gastroenterology	
9-31		ANSI/AAMI ID54:1996/ (R)2012 Enteral feeding set	Reaffirmation.
		adapters and connectors	
9-60		IEC 60601-2-16 Edition 3.0 2008-04 Medical	Withdrawn, see 9-80.
		electrical equipment Part 2-16: Particular	
		requirements for basic safety and essential	
		performance of haemodialysis, haemodiafiltration and	
		haemofiltration	
9-61		IEC 60601-2-18 Edition 3.0 2009-08 Medical	Transition period
		electrical equipmentPart 2-18: Particular	extended.
		requirements for the basic safety and essential	
		performance of endoscopic equipment	
9-72	9-81	ANSI/AAMI/ IEC 60601-2-16:2012 Medical	Newer version with
		electrical equipmentPart 2-16: Particular	transition period.
		requirements for basic safety and essential	
		performance of hemodialysis, hemodiafiltration and	
		hemofiltration equipment	
9-62		IEC 60601-2-2 Edition 5.0 2009-02 Medical electrical	Transition period
		equipmentPart 2-2: Particular requirements for the	extended.
		basic safety and essential performance of frequency	
		surgical equipment and high frequency surgical	
		accessories	

Old		Title of Standard	
	Replacement	Title of Standard	Change
Recognition	Recognition		
No.	No.		
9-63		IEC 60601-2-16 (Third edition2008), Medical	Withdrawn, see 9-80.
		electrical equipmentPart 2-16: Particular	
		requirements for basic safety and essential	
		performance of haemodialysis, haemodiafiltration and	
		haemofiltration equipment CORRIGENDUM 1	
9-64		ANSI/AAMI/IEC 60601-2-2:2009 Medical electrical	Transition period
		equipmentPart 2-2: Particular requirements for the	extended.
		basic safety and essential performance of high	
		frequency surgery equipment and high frequency	
		surgical accessories	
9-80		IEC 60601-2-16 Edition 4.0 2012-03 Medical	Transition period
, 00		electrical equipmentPart 2-16: Particular	extended.
		requirements for the basic safety and essential	extended.
		performance of haemodialysis, haemodiafiltration and	
		haemofiltration equipment	
	1	J. Ophthalmic	
10-15	10-77	ISO 9394 Third edition 2012-10-01 Ophthalmic	Withdrawn and replaced
10-13	10-//	opticsContact lenses and contact lens care products	with newer version.
			with flewer version.
		Determination of biocompatibility by ocular study	
10.26	10.50	with rabbit eyes	***************************************
10-36	10-78	ISO 11979-3 Third edition 2012-12-01 Ophthalmic	Withdrawn and replaced
		implantsIntraocular lensesPart 3: Mechanical	with newer version.
		properties and test methods	
10-40	10-79	ISO 11979-1 Third edition 2012-09-15 Ophthalmic	Withdrawn and replaced
		implantsIntraocular lensesPart 1: Vocabulary	with newer version.
10-45	10-80	ISO 18369-2 Second edition 2012-12-01 Ophthalmic	Withdrawn and replaced
		opticsContact lensesPart 2: Tolerances	with newer version.
10-56		ANSI Z80.12-2007 (R2012) American National	Reaffirmation.
		Standard for OphthalmicsMultifocal Intraocular	
		Lenses	
10-57		ANSI Z80.13-2007 (R2012) American National	Reaffirmation.
		Standard for OphthalmicsPhakic Intraocular Lenses	
10-76		ISO 11979-8 Second edition 2006-07-01	Withdrawn.
		AMENDMENT 1 2011-05-15 Ophthalmic implants	
		Intraocular lensesPart 8: Fundamental requirements	
		K. Orthopedics	
11-73	11-252	ISO 5838-1 Third edition 2013-03-01 Implants for	Withdrawn and replaced
11 ,0	11 202	surgeryMetallic skeletal pins and wiresPart 1:	with a newer version.
		General requirements	With a newer version.
11-206	11-253	ASTM F1800-12 Standard Practice for Cyclic Fatigue	Withdrawn and replaced
11 200	11 233	Testing of Metal Tibial Tray Components of Total	with a newer version.
		Knee Joint Replacements	with a newel version.
11-208	11-254	ISO 14630 Fourth edition 2012-12-01 Non-active	Withdrawn and ranks and
11-208	11-234		Withdrawn and replaced
11 212		surgical implantsGeneral requirements	with a newer version.
11-213		ASTM F1223-08 (Reapproved 2012) Standard Test	Reaffirmation.
		Method for Determination of Total Knee Replacement	
		Constraint	
11-215		ASTM F897-02 (Reapproved 2013) Standard Test	Reaffirmation.
		Method for Measuring Fretting Corrosion of	
		Osteosynthesis Plates and Screws	ĺ

Old	Replacement	Title of Standard	Change
		Title of Standard	Change
Recognition	Recognition		
No.	No.	A CETA (E1 000 00 (E) 10010) C 1 1	D or
11-242		ASTM F1839-08 (Reapproved 2012) Standard	Reaffirmation.
		Specification for Rigid Polyurethane Foam for Use as	
		a Standard Material for Testing Orthopaedic Devices	
		and Instruments	
11-246	11-255	ASTM F1717-13 Standard Test Methods for Spinal	Withdrawn and replaced
		Implant Constructs in a Vertebrectomy Model	with a newer version.
		L. Physical Medicine	
16-24	16-190	ISO 7176-11 Second edition 2012-12-01 Wheelchairs-	Withdrawn and replaced
		-Part 11: Test dummies	with a newer version.
16-28	16-191	ISO 7176-16 Second edition 2012-12-01 Wheelchairs-	Withdrawn and replaced
10 20	10 171	-Part 16: Resistance to ignition of postural support	with a newer version.
		devices	with a newer version.
16-50	16-192	ISO 7176-3 Third edition 2012-12-15 Wheelchairs	Withdrawn and replaced
10-30	10-192	Part 3: Determination of effectiveness of brakes	with a newer version.
			with a newer version.
10.04	10.001	M. Radiology	137
12-34	12-201	IEC 60601-2-54 Edition 1.0 2009-06 Medical	Newer version with
		electrical equipmentPart 2-54: Particular	transition period.
		requirements for the basic safety and essential	
		performance of X-ray equipment for radiography and	
		radioscopy	
12-54	12-254	IEC 60601-2-8 Edition 2.0 2010-11 Medical electrical	Newer version with
		equipmentPart 2-8: Particular requirements for the	extended transition
		basic safety and essential performance of therapeutic	period.
		X-ray equipment operating in the range 10 kV to 1	
		MV	
12-127	12-201	IEC 60601-2-54 Edition 1.0 2009-06 Medical	Newer version with
		electrical equipmentPart 2-54: Particular	transition period.
		requirements for the basic safety and essential	Table 1 Factor 1
		performance of X-ray equipment for radiography and	
		radioscopy	
12-133	12-255	IEC 60601-2-11 Edition 3.0 2013-01 Medical	Newer version with
12-133	12-233	electrical equipmentPart 2-11: Particular	transition period.
			transition period.
		requirements for the basic safety and essential	
12.202		performance of gamma beam therapy equipment	T '1' 1
12-202		IEC 60601-2-43 Edition 2.0 2010-03 Medical	Transition period
		electrical equipmentPart 2-43: Particular	extended.
		requirements for the basic safety and essential	
		performance of X-ray equipment for interventional	
		procedures	
12-203	12-256	IEC 60601-2-44 Edition 3.1 2012-09 Medical	Newer version with
		electrical equipmentPart 2-44: Particular	extended transition
		requirements for the basic safety and essential	period.
		performance of X-ray equipment for computed	
		tomography	
12-204		IEC 60601-2-28 Edition 2.0 2010-03 Medical	Transition period
-		electrical equipmentPart 2-28: Particular	extended.
		requirements for the basic safety and essential	
		performance of X-ray tube assemblies for medical	
		diagnosis	
	L	uiagiiosis	1

Old	Replacement	Title of Standard	Change
Recognition	Recognition		
No.	No.		
12-205		IEC 60601-2-5 Edition 3.0 2009-07 Medical electrical	Transition period
		equipmentPart 2-5: Particular requirements for the	extended.
		basic safety and essential performance of ultrasonic	
		physiotherapy equipment	
12-206		IEC 60601-2-1 Edition 3.0 2009-10 Medical electrical	Transition period
		equipmentPart 2-1: Particular requirements for the	extended.
		basic safety and essential performance of electron	
		accelerators in the range 1 MeV to 50 MeV	
12-207		IEC 60601-2-33 Edition 3.0 2010-03 Medical	Transition period
		electrical equipmentPart 2-33: Particular	extended.
		requirements for the basic safety and essential	
		performance of magnetic resonance equipment for	
		medical diagnostic	
12-208		IEC 60601-2-22 Third Edition 2007-05 Medical	Transition period
		electrical equipmentPart 2-22: Particular	extended.
		requirements for basic safety and essential	
		performance of surgical, cosmetic, therapeutic and	
		diagnostic laser equipment	
12-209		IEC 60601-2-37 Edition 2.0 2007-08 Medical	Transition period
		electrical equipmentPart 2-37: Particular	extended.
		requirements for the basic safety and essential	
		performance of ultrasonic medical diagnostic and	
		monitoring equipment	
12-210		IEC 60601-1-3 Edition 2.0 2008-01 Medical electrical	Transition period
		equipmentPart 1-3: General requirements for basic	extended.
		safety and essential performanceCollateral Standard:	
		Radiation protection in diagnostic X-ray equipment	
12-211		IEC 60601-2-29 Edition 3.0 2008-06 Medical	Transition period
		electrical equipment Part 2-29: Particular requirements	extended.
		for the basic safety and essential performance of	
10.004		radiotherapy simulators	W.1 1 10.056
12-224		IEC 60601-2-44 (Third edition -2009) Medical	Withdrawn, see 12-256.
		electrical equipmentPart 2-44: Particular	
		requirements for the basic safety and essential	
		performance of X-ray equipment for computed tomography CORRIGENDUM 1	
12-236		IEC 60601-2-45 Edition 3.0 2011-02 Medical	Transition period
12-230		electrical equipmentPart 2-45: Particular	extended.
		requirements for the safety and essential performance	CAICHUCU.
		of mammographic X-ray equipment and	
		mammographic x-ray equipment and mammographic stereotactic devices	
12-250		IEC 60601-2-44 Edition 3.0 2012-08 Amendment 1	Withdrawn, see 12-256.
12-230		Medical electrical equipmentPart 2-44: Particular	williawii, see 12-230.
		requirements for the basic safety and essential	
		performance of X-ray equipment for computed	
		tomography	
		winography	<u> </u>

Old	Replacement	Title of Standard	Change
Recognition	Recognition	Title of Standard	
No.	No.		
	•	N. Sterility	
14-64	14-378	ASTM F1929-12 Standard Test Method for Detecting	Withdrawn and replaced
		Seal Leaks in Porous Medical Packaging by Dye	with newer version.
		Penetration	
14-230		ASTM F2203-02 (Reapproved 2012) Standard Test	Reaffirmation.
		Method for Linear Measurement Using Precision Steel	
		Rule	
14-231		ASTM F2217-02 (Reapproved 2012) Standard	Reaffirmation.
		Practice for Coating/Adhesive Weight Determination	
14-235		ASTM F1140 -07 (Reapproved 2012) Standard Test	Reaffirmation.
		Methods for Internal Pressurization Failure Resistance	
14.006		of Unrestrained Packages	D CC .:
14-236		ASTM F2054-07 (Reapproved 2012) Standard Test	Reaffirmation.
		Method for Burst Testing of Flexible Package Seals	
		Using Internal Air Pressurization Within Restraining	
14 244	14-379	Plates ISO 14644-8 Second edition 2013-02-15 Cleanrooms	Widedness and seeded a
14-244	14-3/9		Withdrawn and replaced
		and associated controlled environmentsPart 8:	with newer version.
		Classification of air cleanliness by chemical concentration (ACC)	
14-264		ANSI/AAMI ST8:2008 Hospital steam sterilizers	Contact person.
14-204		ANSI/AAMI ST41:2008/(R)2012 Ethylene oxide	Reaffirmation.
14-2/3		sterilization in health care facilities: Safety and	Realiffillation.
		effectiveness	
14-281	14-380	ASTM F17-12 Standard Terminology Relating to	Withdrawn and replaced
14-201	14-360	Flexible Barrier Packaging	with newer version.
14-295		ANSI/AAMI ST81:2004/(R)2010 Sterilization of	Relevant guidance.
1.290		medical devicesInformation to be provided by the	Trefe vant garanice.
		manufacturer for the processing of resterilizable	
		medical devices	
14-311		ANSI/AAMI ST55:2010 Table-top steam sterilizers	Contact person
14-312	14-394	ANSI/AAMI ST79:2010 & A1:2010 & A2:2011 &	Withdrawn and replaced
		A3:2012 (Consolidated Text) Comprehensive guide to	with newer version.
		steam sterilization and sterility assurance in health	
		care facilities	
14-341		ASTM E2303-11 ^{€1} Standard Guide for Absorbed-	Editorial change.
		Dose Mapping in Radiation Processing Facilities	
14-345	14-381	ISO/ASTM 51261 Second edition 2013-04-15	Withdrawn and replaced
		Practice for calibration of routine dosimetry systems	with newer version.
		for radiation processing	
14-346	14-382	ISO/ASTM 51276 Third edition 2012-07-15 Practice	Withdrawn and replaced
		for use of a polymethylmethacrylate dosimetry system	with newer version.
14-347	14-383	ISO/ASTM 51702 Third edition 2013-04-15 Practice	Withdrawn and replaced
		for dosimetry in a gamma facility for radiation	with newer version.
		processing	
14-349		ANSI/AAMI/ISO 13408-3:2006/(R)2012 Aseptic	Reaffirmation.
		processing of health care productsPart 3:	
		Lyophilization	
14-350		ANSI/AAMI/ISO 13408-4:2005/(R)2012 Aseptic	Reaffirmation.
		processing of health care productsPart 4: Clean-in-	
		place technologies	

Old	Replacement	Title of Standard ¹	Change		
Recognition	Recognition				
No.	No.				
14-351		ANSI/AAMI/ISO 13408-5:2006/(R)2012 Aseptic	Reaffirmation.		
		processing of health care productsPart 5:			
		Sterilization in place			
O. Tissue Engineering					
15-5	15-37	ASTM F234711 Standard Guide for	Withdrawn and replaced		
		Characterization and Testing of Hyaluronan as	with newer version.		
		Starting Materials Intended for Use in Biomedical and			
		Tissue Engineered Medical Product Applications			
15-14		ASTM F2603 –06 (Reapproved 2012) Standard Guide	Reaffirmation.		
		for Interpreting Images of Polymeric Tissue Scaffolds			
15-29		ASTM F2259 −10 (Reapproved 2012) ^{€1} Standard	Reaffirmation.		
		Test Method for Determining the Chemical			
		Composition and Sequence in Alginate by Proton			
		Nuclear Magnetic Resonance (¹ H NMR) Spectroscopy			
15-32		ASTM F2260 −03 (Reapproved 2012) ^{€1} Standard	Reaffirmation.		
		Test Method for Determining Degree of Deacetylation			
		in Chitosan Salts by Proton Nuclear Magnetic			
		Resonance (¹ H NMR) Spectroscopy			

All standard titles in this table conform to the style requirements of the respective organizations.

III. Listing of New Entries

In table 2, FDA provides the listing of new entries and consensus standards added as modifications to the list of recognized standards under Recognition List Number: 031.

Table 2.--New Entries to the List of Recognized Standards

Recognition	Title of Standard ¹	Reference No. and Date			
No.					
	A. Anesthesia				
1-90	Oxygen concentrators for medical useSafety requirements	ISO 8359 Second edition 1996-12-15 Amendment 1			
		2012-07-01			
1-92	Sleep apnoea breathing therapyPart 2: Masks and application	ISO 17510-2 Second			
	accessories	edition 2007-10-01			
B. Dental/ENT					
4-205	DentistryHandpieces and motors	ISO 14457 First edition 2012-09-15			
C. General					
5-75	Medical devicesSymbols to be used with medical device labels, labeling, and information to be suppliedPart 1: General requirements	ANSI/AAMI/ISO 15223-1 2012			
D. In Vitro Diagnostics					
7-242	Hemolysis, Icterus, and Lipemia/Turbidity Indices as Indicators of Interference in Clinical Laboratory Analysis; Approved Guideline	CLSI C56-A			
7-243	Method for Antifungal Disk Diffusion Susceptibility Testing of Nondermatophyte Filamentous Fungi; Approved Guideline	CLSI M51-A			

Table 2.--New Entries to the List of Recognized Standards

	Table 2New Entries to the List of Recognized Standard				
Recognition No.	Title of Standard ¹	Reference No. and Date			
	E. Neurology	•			
17-11	Medical electrical equipmentPart 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	IEC 60601-2-10 Edition 2.0 2012-06			
	F. Radiology				
12-251	Medical electrical equipmentPart 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment	IEC 60601-2-63 Edition 1.0 2012-09			
12-252	Medical electrical equipmentPart 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment	IEC 60601-2-65 Edition 1.0 2012-09			
12-253	Medical electrical equipmentMedical electron accelerators Functional performance characteristics	IEC 60976 Edition 2.0 2007-10			
G. Software/Informatics					
13-37	Laboratory Automation: Data Content for Specimen Identification; Approved Standard	NCCLS AUTO7-A			
	H. Sterility				
14-384	Biological evaluation of medical devicesPart 7: Ethylene oxide sterilization residuals	ISO 10993-7:2008 TECHNICAL CORRIGENDUM 1 Published 2009-11-15			
14-385	Aseptic processing of health care productsPart 1: General requirements	ANSI/AAMI/ISO 13408- 1:2008/ (R2011)			
14-386	Aseptic processing of health care productsPart 1: General requirements	ISO 13408-1 Second edition 2008-06-15			
14-387	Aseptic processing of health care productsPart 7: Alternate processes for medical devices and combination products	ANSI/AAMI/ISO 13408- 7:2012			
14-388	Aseptic processing of health care productsPart 7: Alternate processes for medical devices and combination products	ISO 13408-7 First edition 2012-08-01			
14-389	Cleanrooms and associated controlled environmentsPart 9: Classification of surface cleanliness by particle concentration	ISO 14644-9 First edition 2012-08-15			
14-390	Cleanrooms and associated controlled environmentsPart 10: Classification of surface cleanliness by chemical concentration	ISO 14644-10 First edition 2013-03-01			
14-391	Practice for dosimetry in an X-ray (bremsstrahlung) facility for radiation processing	ISO/ASTM 51608 Second edition 2005-05-15			
14-392	Practice for dosimetry in an electron beam facility for radiation processing at energies between 300 keV and 25 MeV	ISO/ASTM 51649 Second edition 2005-05-15			
14-393	Practice for dosimetry in an electron beam facility for radiation processing at energies between 80 and 300 keV	ISO/ASTM 51818 Second edition 2009-06-15			
	I. Tissue Engineering				
15-38	Standard Guide for Characterization of Ceramic and Mineral Based Scaffolds used for Tissue-Engineered Medical Products (TEMPs) and as Device for Surgical Implant Applications	ATSM F288311			
1	1	l			

All standard titles in this table conform to the style requirements of the respective organizations.

IV. List of Recognized Standards

FDA maintains the Agency's current list of FDA recognized consensus standards in a searchable database that may be accessed directly at FDA's Internet site at

http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/search.cfm. FDA will incorporate the modifications and revisions described in this notice into the database and, upon publication in the Federal Register, this recognition of consensus standards will be effective. FDA will announce additional modifications and revisions to the list of recognized consensus standards, as needed, in the Federal Register once a year, or more often, if necessary. Beginning with Recognition List Number: 033, FDA will no longer be announcing minor revisions to the list of recognized consensus standards such as technical contact person, relevant guidance, processes affected, CFR citations, and product codes.

V. Recommendation of Standards for Recognition by FDA

Any person may recommend consensus standards as candidates for recognition under section 514 of the FD&C Act by submitting such recommendations, with reasons for the recommendation, to the contact person (see FOR FURTHER INFORMATION CONTACT). To be properly considered, such recommendations should contain, at a minimum, the following information: (1) Title of the standard; (2) any reference number and date; (3) name and address of the national or international standards development organization; (4) a proposed list of devices for which a declaration of conformity to this standard should routinely apply; and (5) a brief identification of the testing or performance or other characteristics of the device(s) that would be addressed by a declaration of conformity.

VI. Electronic Access

You may obtain a copy of "Guidance on the Recognition and Use of Consensus Standards" by using the Internet. The Center for Devices and Radiological Health (CDRH) maintains a site on the Internet for easy access to information including text, graphics, and files that you may download to a personal computer with access to the Internet. Updated on a regular

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basis, the CDRH home page includes the guidance as well as the current list of recognized standards and other standards-related documents. After publication in the Federal Register, this notice announcing "Modification to the List of Recognized Standards, Recognition List Number: 031" will be available on the CDRH home page. You may access the CDRH home page at http://www.fda.gov/MedicalDevices.

You may access "Guidance on the Recognition and Use of Consensus Standards," and the searchable database for "FDA Recognized Consensus Standards" at http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards.

This Federal Register document on modifications in FDA's recognition of consensus standards is available at

http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/ucm123792.htm.

VII. Submission of Comments and Effective Date

Interested persons may submit to the contact person (see FOR FURTHER INFORMATION CONTACT) either electronic or written comments regarding this document. It is only necessary to send one set of comments. Comments are to be identified with the docket number found in brackets in the heading of this document. FDA will consider any comments received in determining whether to amend the current listing of modifications to the list of recognized standards, Recognition List Number: 031. These modifications to the list of recognized standards are effective upon publication of this notice in the Federal Register.

Dated: July 31, 2013.

Leslie Kux,

Assistant Commissioner for Policy.

[FR Doc. 2013-19019 Filed 08/05/2013 at 8:45 am; Publication Date: 08/06/2013]